Asteroid Retrieval Technology

Completed Technology Project (2012 - 2013)

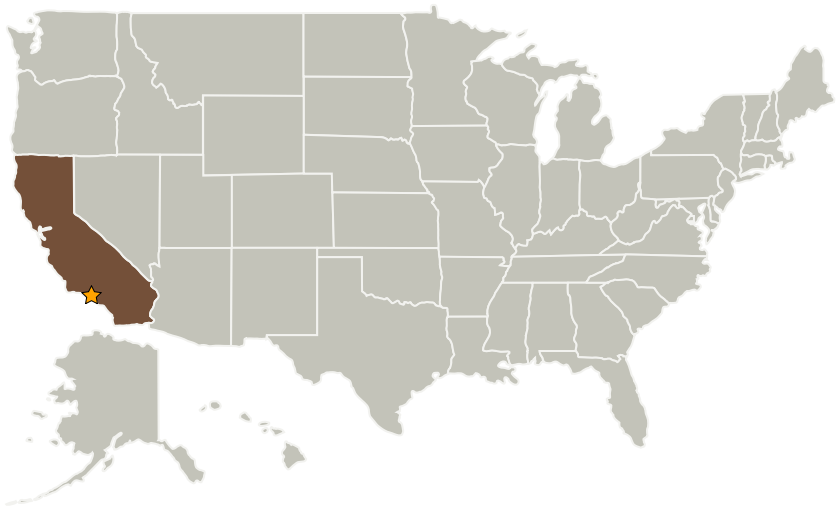
Project Introduction

Develop key technologies for capturing and returning a small asteroid and returning it to near the Moon.

Anticipated Benefits

Missions will benefit from the development of key technologies for capturing and returning a small asteroid and returning it to near the Moon.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★Jet Propulsion Laboratory(JPL)	Lead Organization	NASA Center	Pasadena, California

Primary U.S. Work Locations
California

Asteroid Retrieval Technology

Table of Contents

Organizational Responsibility

Responsible Mission Directorate:

Mission Support Directorate (MSD)

Lead Center / Facility:

Jet Propulsion Laboratory (JPL)

Responsible Program:

Center Independent Research & Development: JPL IRAD

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Project Management

Program Manager:

Fred Y Hadaegh

Project Manager:

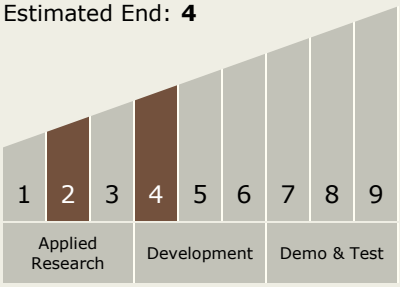
Jonas Zmuidzinas

Principal Investigator:

John R Brophy

Technology Maturity (TRL)

Start: **2**
Estimated End: **4**



Technology Areas

Primary:

- TX17 Guidance, Navigation, and Control (GN&C)
  - TX17.2 Navigation Technologies
    - TX17.2.1 Onboard Navigation Algorithms